

Inventor(s): RICHMOND et al.
APP. SERIAL NO.: 10/631,845

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A circular stamp with the text "O.I.P.E." at the top, "JC100" on the right, "NOV 13 2003" in the center, and "PATENT & TRADEMARK OFFICE" at the bottom.

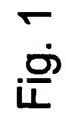


Fig. 1

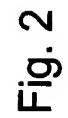


Fig. 2

Title: ANIMAL CELL COLONY
PICKING APPARATUS AND
METHOD

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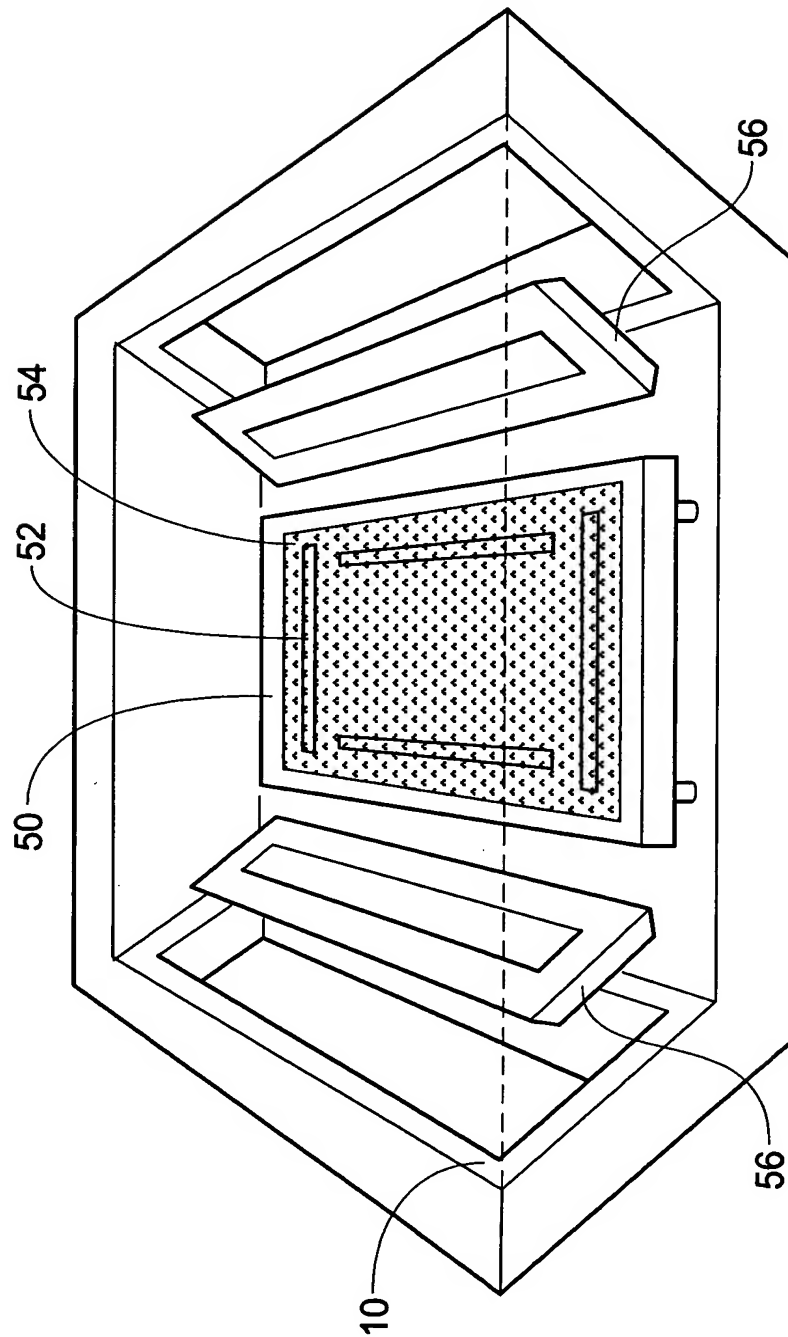


Fig. 3

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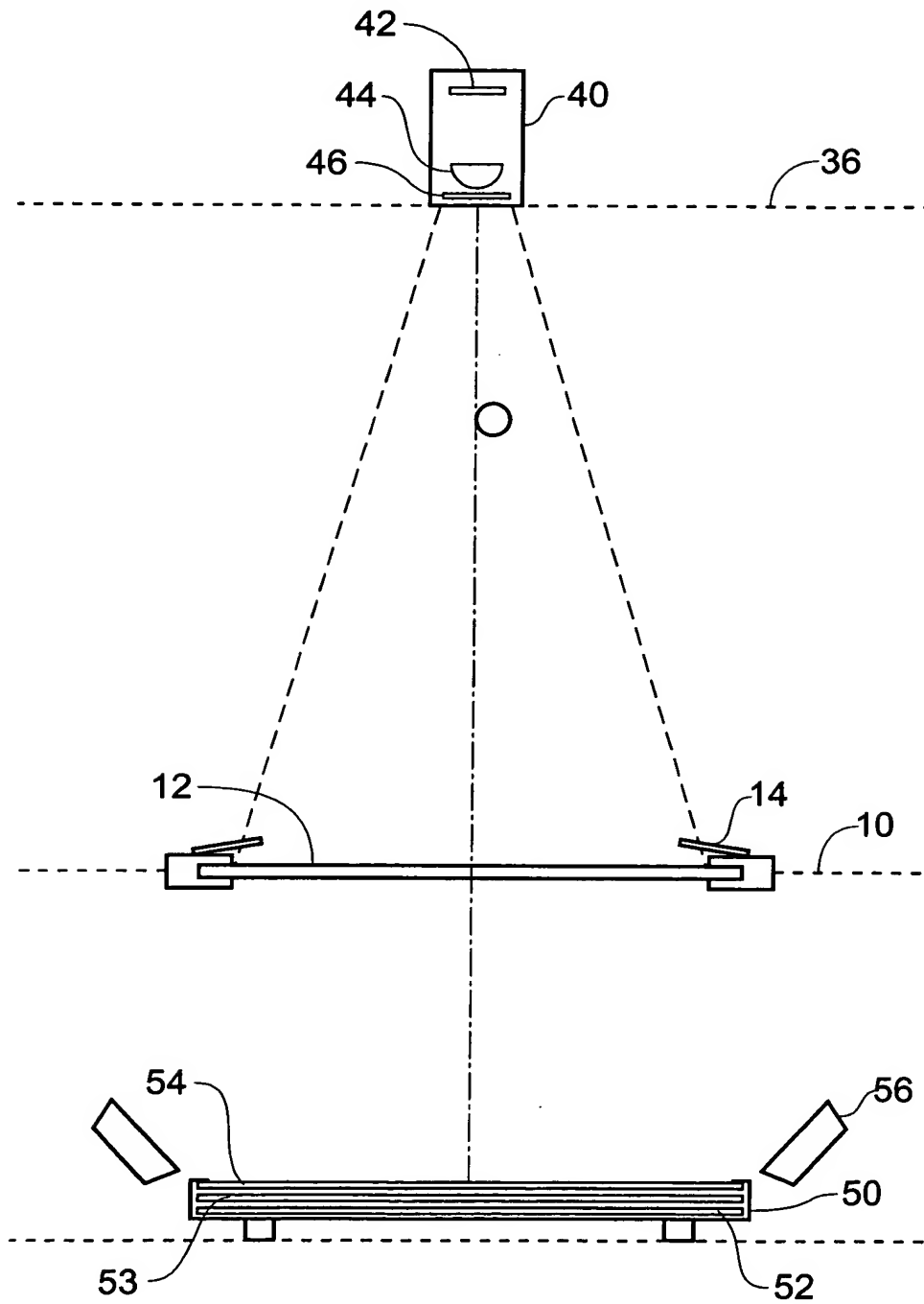


Fig. 4

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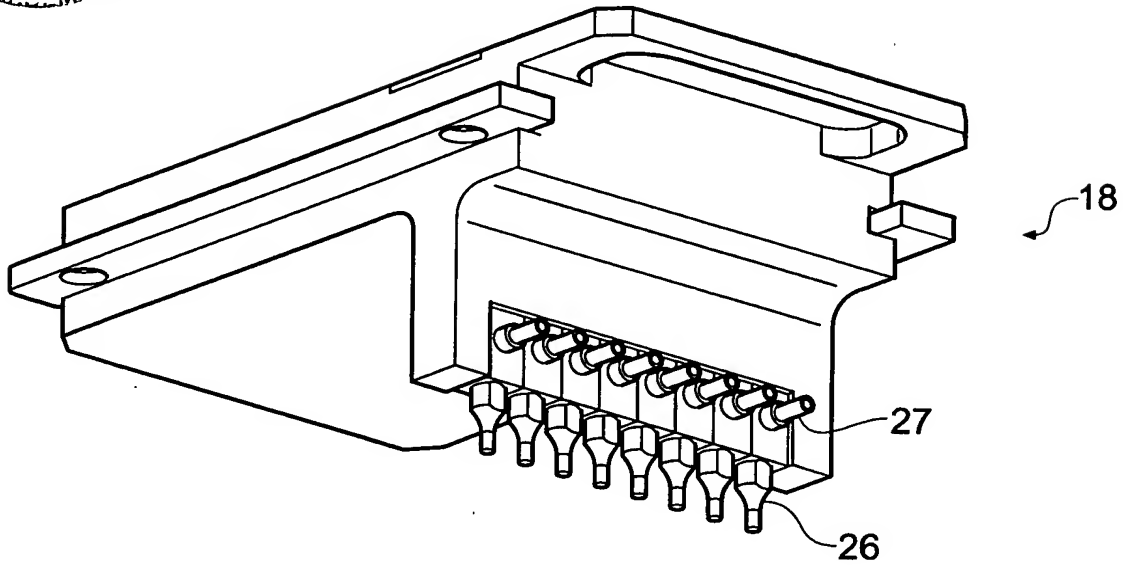


Fig. 5

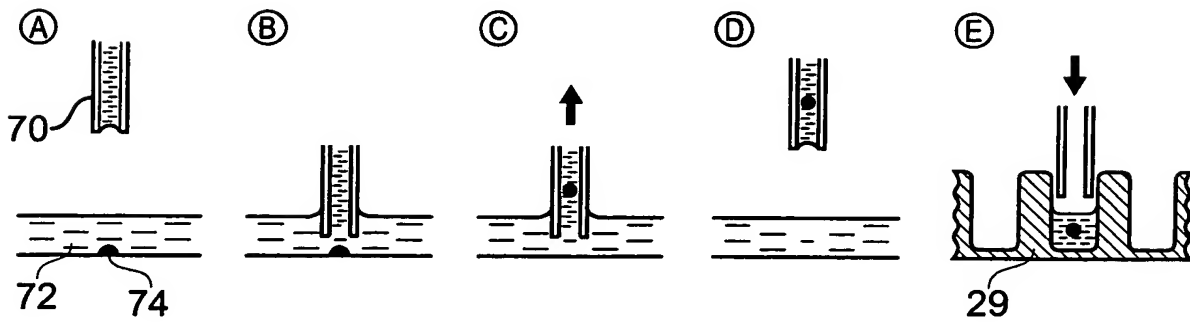


Fig. 8

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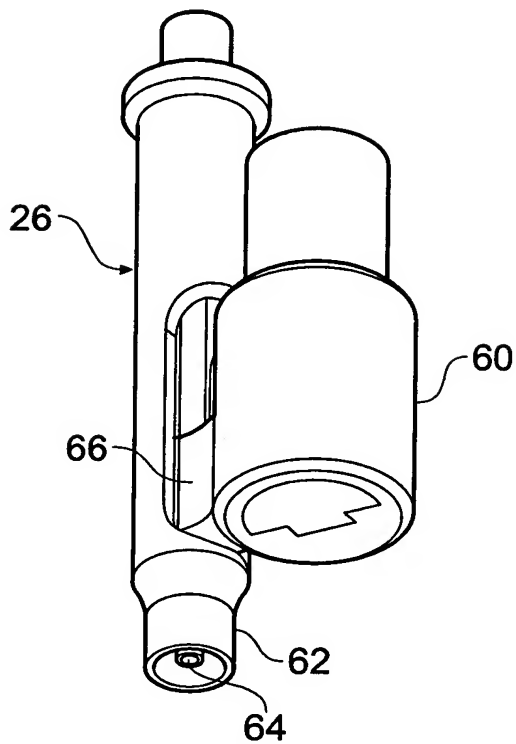


Fig. 6

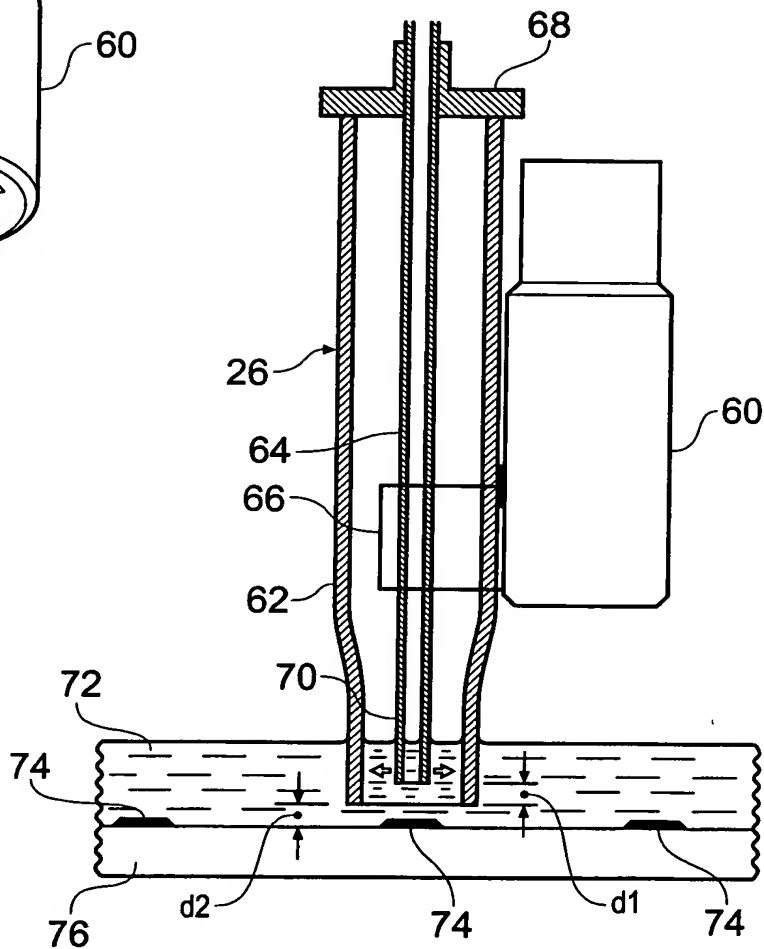


Fig. 7

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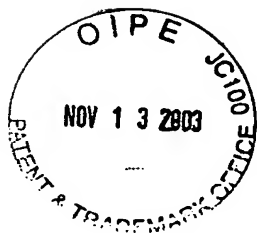
NOV 13 2003
JOINT OFFICE

The schematic diagram illustrates a control system for a picking tool. On the left, a vertical assembly includes a 'Picking Tool' (26) at the bottom, connected to a vertical shaft (28). This shaft passes through a series of components: a motor or actuator (83), a control unit (86), and a valve or switch mechanism (95, 87, 89). The shaft (28) is connected to a container (101) on the right. The container (101) is partially filled with a liquid (103) and has a vertical tube (105) extending into it. A 'CONTROL' unit (84) is connected to the system via a line (93) and a line (99). The control unit (84) is also connected to the motor/actuator (83) and the valve/switch mechanism (95, 87, 89). The container (101) is labeled with 'Com', 'N.C.', and 'N.O.' (Common, Normally Closed, and Normally Open) terminals. The liquid level in the container is indicated by horizontal dashed lines (103).

Fig. 9

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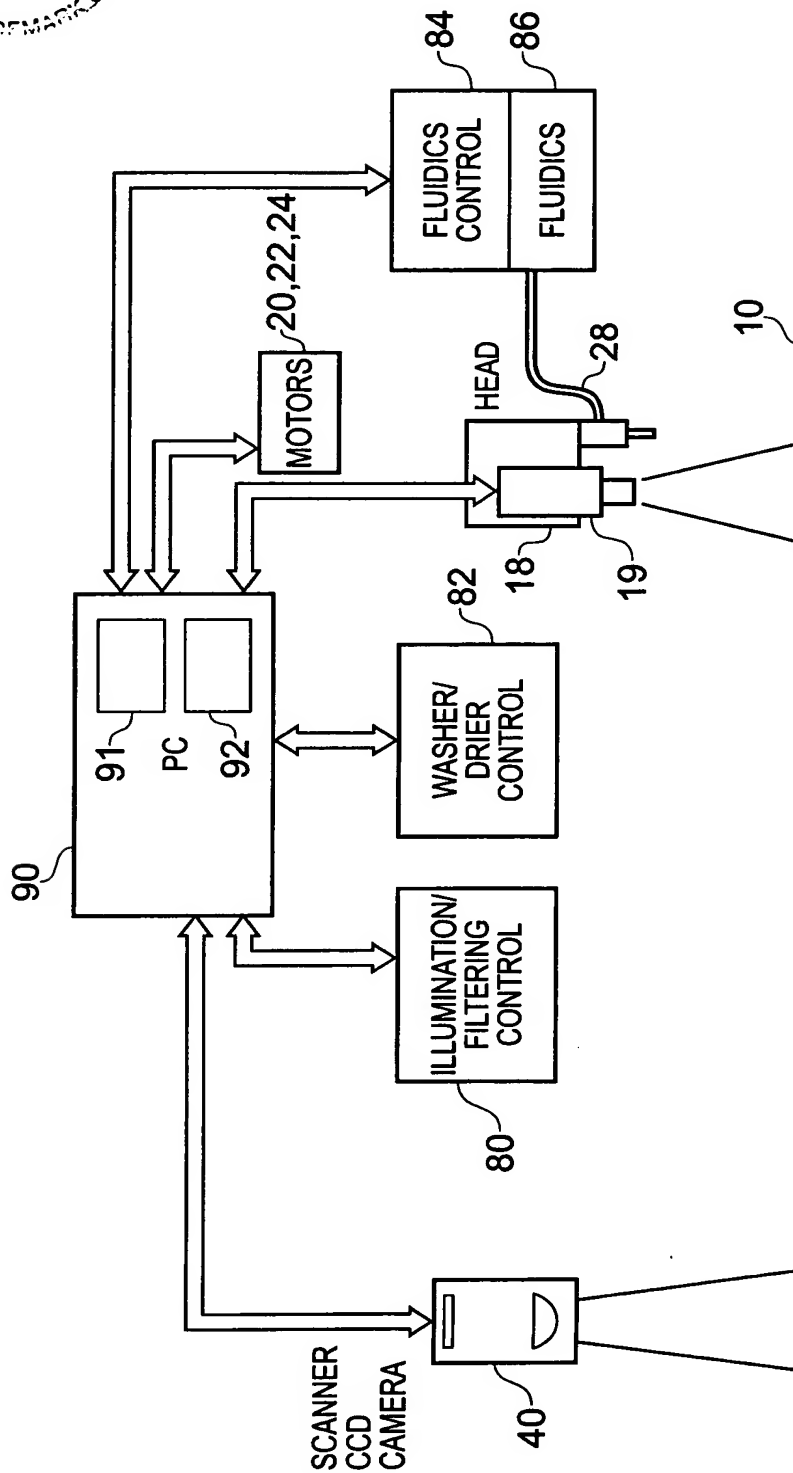


Fig. 10

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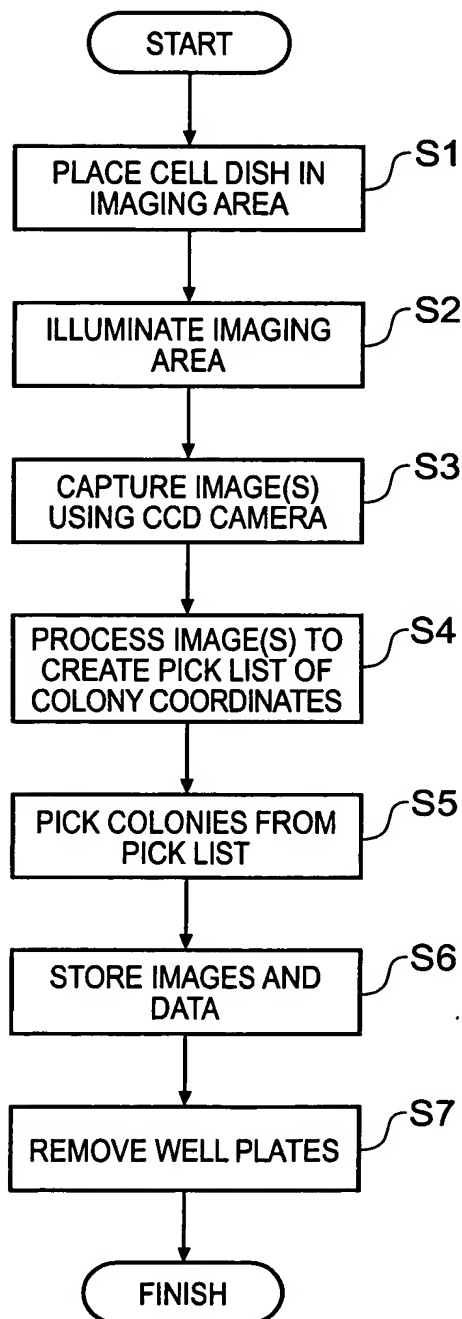
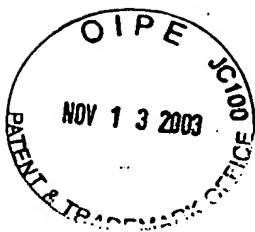


Fig. 11

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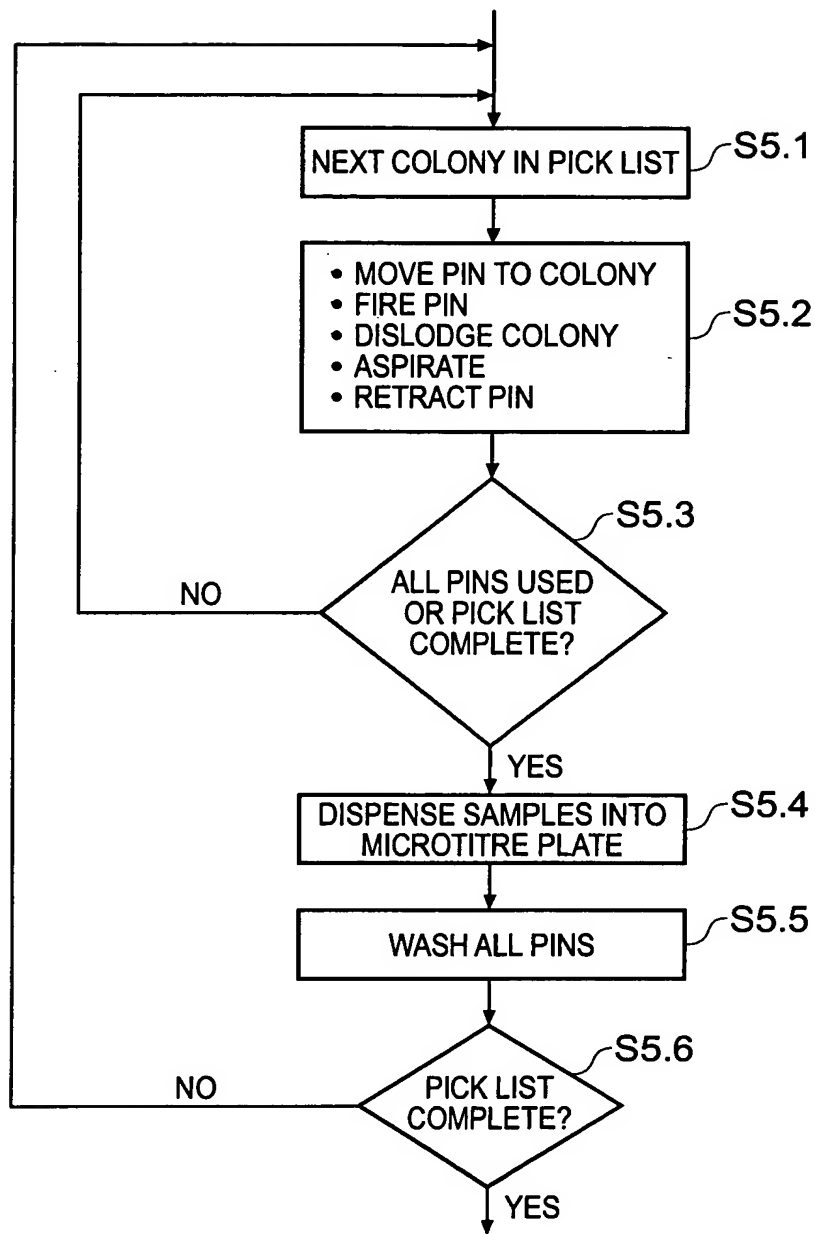


Fig. 12